

## POTASSIUM HEXAMETHYL DISILAZANES

### Potassium Hexamethyl Disilazane (KHMDs) in THF 20%

- a. 20 wt% Solution in Tetrahydrofuran
- b. Density at 25°C Approx 0.9 gm/ml

#### 1. OTHER NAMES

- a. Potassium hexamethyl disilazide in THF
- b. Potassium bis (trimethylsilyl) Amides in THF
- c. KHMDs IN THF

#### 2. CAS NO.

- a. 40949-94-8 for KHMDs
- b. 109-99-9 for THF

#### 3. FORMULA WEIGHT

199.49 gm/mole

#### 4. TECHNICAL SPECIFICATION

- a. Appearance: Yellow to amber color liquid
- b. Total alkalinity (%): 20-22
- c. Hydroxide Content (%): 1 max
- d. KHMDs content (%): 19-21

#### 5. SOLUBILITY

KHMDs is very soluble in aromatic hydrocarbons and ethers. It is also available in toluene.

#### 6. STABILITY

Atmospheric moisture and carbon dioxide reacts with KHMDs to produce potassium hydroxide and potassium carbonate. Hexamethyl disilazane is liberated from these reactions. The solution becomes cloudy and develops colour. KHMDs solution should be stored in a cool place away from heat, sparks and flame.

#### 7. PACKAGING

- a. Sample packing from 100 gms to 500 gms in glass bottle
- b. 180 kgs in 210 lit. steel drum
- c. Any other packing as per customer request

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### 8. SAMPLING INSTRUCTIONS

- a. The product is packed under dry nitrogen with positive pressure of nitrogen inside the drum.
- b. The quality of the product deteriorates very fast if exposed to atmosphere even for a brief period.
- c. While sampling, please ensure that the sample is taken out under dry nitrogen in a preweighed stoppered bottle and analysis is done immediately.
- d. After sampling, close the container securely after putting positive nitrogen pressure in the drum. This is very important so that the product does not deteriorate on storage.

### 9. SHIPPING INFORMATION

- a. UN-2920, PG 1
- b. Corrosive flammable liquid

### 10. PRODUCT PROPERTIES

- a. Very high purity
- b. Strong base
- c. Selective and specific in many organic reactions
- d. Low hydroxide content
- e. Custom packaging available
- f. Any quantities in bulk

### 11. PRODUCT BENEFITS

- a. High reaction yields  
USED IN:
  - b. Base catalysed reactions
  - c. Strong base for deprotonation reactions
  - d. Superbase reaction used with butyllithium
  - e. Base for Wittig reaction
  - f. Kinetic enolate formation

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